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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/747,515

12/21/2000

Andreas Arming

STL000011US2

3164

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12/27/2007

INTERNATIONAL BUSINESS MACHINES CORP

IP LAW

555 BAILEY AVENUE , J46/G4

SAN JOSE, CA 95141

EXAMINER

WONG, LESLIE

ART UNIT

PAPER NUMBER

2164

MAIL DATE

DELIVERY MODE

12/27/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

09/747,515

Applicant(s)

ARNING ET AL.

Examiner

Leslie Wong

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 0/14/2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 55-59,61-65,67, 69-71, 73-76, 78-81, and 83-85-86 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 73-76,78-81, and 83-86 is/are allowed.
- 6) ☒ Claim(s) 55,57-59,61,63-65,67 and 69-71 is/are rejected.
- 7) ☒ Claim(s) 56,62 and 68 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on 21 December 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>09/14/06;10/10/06;01/05/07</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 14 September 2006 has been entered.

Information Disclosure Statement

2. Applicants' Information Disclosure Statement, filed 09/14/2006, 10/10/2006, and 01/05/2007, has been received, entered into the record, and considered. See attached form PTO-1449.

Claim Objections

3. Claims 55, 61, and 67 are objected to because of the following informalities: it is unclear what is meant by "a feature identification technique". Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 55, 57-59, 61, 63-65, 67 and 69-71 are rejected under 35 U.S.C. 102(e) as being **Tummalapalli** by (US 20040243607 A1).

Regarding claims 55, 61, and 67, **Tummalapalli** teaches a computer-implemented method, an apparatus, and an article of manufacture of accessing a subject multi-dimensional database stored on a data store connected to a computer, comprising:

a). **receiving an indication of a number of features of said multi-dimensional database to be identified and an indication of a feature identification technique** as the planner can select to have the information displayed separately for each business unit ... The planner may then drill down to display the information for a particular business unit. [0086];

b). **performing feature identification to identify the indicated number of features using the indicated features identification technique** as the planner may then perform a drill down operation based on a specific Apps responsibility of the

selected business unit... the planner may then compare the resource usage of the PO Apps Responsibility for the FINANCE business unit to the PO APPS Responsibility of other business units during a particular month (MMI)[0087]; and

c). **creating an index for the subject multi-dimensional database using the identified number of features, wherein creating the index comprises storing deviation values for each of the identified number of features** as if the deviation between the baseline snapshot and the subsequent snapshot exceeds the threshold, then corrective action is taken [0105].

Regarding claims 57, 63, and 69, **Tummalapalli** further teaches wherein receiving the number of features to be identified comprises receiving a parameter value [0086].

Regarding claims 58-59, 64-65, and 70-71, **Tummalapalli** further teaches creating the index using the list of multi-dimensional points [0058].

Allowable Subject Matter

6. Claims 73-87 are allowed.

The following is an examiner's statement of reasons for allowance:

Prior art of record fails to teach a combination of elements including creating an index for the subject multi-dimensional database using the identified number o features, wherein the index comprises a second multi-dimensional database that is derived from

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the subject multi-dimensional database, wherein creating the index comprises storing deviation values for each of the identified number of features as recited in the independent claims.

7. Claims 56, 62, and 68 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leslie Wong whose telephone number is (571) 272-4120. The examiner can normally be reached on Monday to Friday 9:30am - 6:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, CHARLES RONES can be reached on (571) 272-4085. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Leslie Wong
Primary Patent Examiner
Art Unit 2164

LW
April 29, 2007